

ICF International / Laboratory Data Consultants

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MEMORANDUM

TO:

Chris Lichens, Remedial Project Manager

Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Task Order Manager (TOM)

Quality Assurance (QA) Program, MTS-3

FROM:

Doug Lindelof, Data Review Task Manager

Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041

Technical Direction Form No.: 00105083 Amendment 1

DATE:

October 1, 2007

SUBJECT:

Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:

Omega Chem OU2

Site Account No.:

09 BC LA02

CERCLIS ID No.:

CAD042245001

Case No.:

None Provided

SDG No.:

IQG0879

Laboratory:

TestAmerica Analytical Testing Corp.

Analysis:

Hexavalent Chromium

Samples:

4 Groundwater Samples (see Case Summary)

Collection Dates:

July 11, 2007

Reviewer:

Stan Kott, ESAT/Laboratory Data Consultants

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

SAMPLING ISSUES: [X] Yes [] No

Data Validation Report

Case No.: None Provided SDG No.: IQG0879

Site: Omega Chem OU2

Laboratory: TestAmerica Analytical Testing Corp.

Reviewer: Stan Kott, ESAT/LDC

Date: October 1, 2007

I. CASE SUMMARY

Sample Information

Samples: OC2-MW26D-W-5-586, OC2-MW26C-W-0-587,

OC2-MW26B-W-0-588, OC2-MW26A-W-0-589

Concentration and Matrix: Low Concentration Groundwater

Analysis: Hexavalent Chromium SOW: EPA Method 218.6

Collection Date: July 11, 2007 Sample Receipt Date: July 11, 2007 Preparation Date: July 11, 2007 Analysis Date: July 11, 2007

Field QC

Field Blanks (FB): Not Provided
Equipment Blanks (EB): Not Provided
Background Samples (BG): Not Provided
Field Duplicates (D1): Not Provided

Laboratory QC

Method Blanks: 7G11117-BLK1
Associated Samples: Samples listed above
Matrix Spike: 7G11117-MS1

Matrix Spike Duplicate: 7G11117-MSD1

Analysis: Hexavalent Chromium

Analyte Sample Preparation Date Hexavalent Chromium July 11, 2007 Analysis Date July 11, 2007

Sampling Issues

The Chain of Custody (COC) record form did not specify a sample to be used for laboratory quality control (QC). However, the laboratory selected sample OC2-MW26D-W-5-586 which is designated as a QC sample on the Field QA/QC Summary Form. No adverse effect on data quality is expected.

The exact type of sample preservation was not provided on the COC record form. However, the laboratory Case Narrative indicates no problems were encountered. No adverse on data quality is expected.

Additional Comments

As directed by the EPA TOM, a Tier 3 data review was performed.

Analytical results are listed in Table 1A with qualifications. Definitions of data qualifiers used in Table 1A are listed in Table 1B.

This report was prepared in accordance with the following documents:

- Region 9 Standard Operating Procedure 906, Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Inorganic Data Packages;
- Methods For The Determination Of Metals In Environmental Samples, EPA-600/4-91-010, June 1991; and
- USEPA Method 218.6, Determination of Dissolved Hexavalent Chromium in Drinking Water, Groundwater, and Industrial Wastewater Effluents by Ion Chromatography, Revision 3.3, May 1994.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Data Completeness	Yes	
2.	Sample Preservation and Holding Times	Yes	
3.	Calibration	Yes	
	a. Initial		
	b. Initial and Continuing Calibration Verifica	ation	
4.	Blanks	Yes	
5.	Laboratory Control Sample (LCS)	Yes	
6.	Duplicate Sample Analysis	Yes	
7.	Matrix Spike Sample Analysis	Yes	
8.	Field Duplicate Sample Analysis	N/A	
9.	Sample Quantitation	Yes	
10.	Overall Assessment	Yes	

N/A = Not Applicable

III. OVERALL ASSESSMENT OF DATA

All of the method requirements specified in the EPA Method 218.6 have been met. Reported results for hexavalent chromium in all of the samples were appropriately and correctly calculated.

ANALYTICAL RESULTS

Page 1 of 1

Case No.: None

SDG No: IQG0607

Table 1A

Site: Omega Chemical OU2

Lab: TestAmerica Analytical Testing Corp.

Date: October 1, 2007

Reviewer: Stan Kott, ESAT/LDC

Concentration in ug/L

Analysis Type: Hexavalent Chromium In Groundwater

Samples By Method 218.6

Sample ID : Collection Date :									OC2-MW26A-W-0-589 07/11/2007			Reporting Lim	it								
PARAMETER	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
HEXAVALENT CHROMIUM	0.0003U			0.0092			0.052			0.034			0.0003								
		******				£					7.7	· · · · · ·	1		- * ::		E TEX		- 쪼리 (상소)		7

PARAMETER	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Vai	Com
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Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

MDL - Method Detection Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

RL - Reporting Limit

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document *USEPA* Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.